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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,044	06/15/2006	Osamu Funahashi	MAT-8859US	6960
52473 RATNERPRES	7590 02/18/201 STIA	EXAMINER		
P.O. BOX 980		ROBINSON, RYAN C		
VALLEY FORGE, PA 19482			ART UNIT	PAPER NUMBER
			2614	
			MAIL DATE	DELIVERY MODE
			02/18/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/583,044	FUNAHASHI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Ryan Robinson	2614		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>27 Jac</u> This action is FINAL . 2b) ☐ This action is FINAL . 2b) ☐ This action is in condition for allowed closed in accordance with the practice under Expression in the Expression in the practice under Expression in the practice under Expression in the practice under Expression in the Expression in the practice under Expression in the	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 15 June 2006 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	er election requirement. er.)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Ex	rammer. Note the attached Office	Action of form PTO-152.		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/15/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 recites the limitation of the inner circumferential portion of the suspension holder "coupled via only an adhesive to the voice coil body" in lines 25-26 of claim 1, when the claim previously recites that the said portion is disposed on a top portion of the supporting section, which would imply that the said portion is coupled to the voice coil body through the supporting section as well.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Proni, U.S. Patent No. 6,088,466, published on 7/11/2000, (hereby Proni).

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5. As to claim 1, Proni discloses a loudspeaker (Fig. 2b) comprising a frame (20), a magnetic circuit (36b) held by the frame, a voice coil body (43) disposed so as it can move freely in a magnetic gap (45) of the magnetic circuit, a diaphragm (24) whose outer circumferential end is connected to the frame (20) via a first edge, and a suspension holder (38) whose outer circumferential end is connected to the frame (20) via a second edge; and a supporting section (53) attached to the voice coil body (43), wherein: a diameter of an inner circumference of the suspension holder (38) is greater than an outer diameter of the voice coil body (43) while a diameter of an inner circumference of the diaphragm (24) is greater than the diameter of the inner circumference of the suspension holder (38), the suspension holder (38) has an inner circumferential portion which is apart from the voice coil body (43), the inner circumferential portion is disposed on a top surface of the supporting section (53) and the inner circumferential portion is coupled via only an adhesive to the voice coil body (Col. 10, lines 28-32), and the diaphragm (24) is disposed on and in contact with the suspension holder (38) at an inner circumferential end of the suspension holder (38) such that the diaphragm (24) is supported by the suspension holder (38).

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6. As to claim 2, Proni discloses a loudspeaker (Fig. 2b) comprising a frame (20), a magnetic circuit (36b) held by the frame, a voice coil body (43) disposed so as it can move freely in a magnetic gap (45) of the magnetic circuit, a diaphragm (24) whose outer circumferential end is connected to the frame (20) via a first edge, and a

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suspension holder (38) whose outer circumferential end is connected to the frame (20) via a second edge; and a cylindrical supporting section (53) attached to the voice coil body (43), wherein: a diameter of an inner circumference of the suspension holder (38) is greater than an outer diameter of the voice coil body (43) while a diameter of an inner circumference of the diaphragm (24) is greater than the diameter of the inner circumference of the suspension holder (38), the suspension holder (38) has an inner circumferential portion which is apart from the voice coil body (43), the inner circumferential portion is disposed on a top surface of the supporting section (53) and the inner circumferential portion is coupled via an adhesive to the voice coil body (Col. 10, lines 28-32), and the diaphragm (24) is disposed on and in contact with the suspension holder (38) at an inner circumferential end of the suspension holder (38) such that the diaphragm (24) is supported by the suspension holder (38).

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7. As to claim 3, Proni discloses a loudspeaker (Fig. 2b) comprising a frame (20), a magnetic circuit (36b) held by the frame, a voice coil body (43) disposed so as it can move freely in a magnetic gap (45) of the magnetic circuit, a diaphragm (24) whose outer circumferential end is connected to the frame (20) via a first edge, and a suspension holder (38) whose outer circumferential end is connected to the frame (20) via a second edge; and a supporting section (53) attached to the voice coil body (43), wherein: a diameter of an inner circumference of the suspension holder (38) is greater than an outer diameter of the voice coil body (43) while a diameter of an inner circumference of the diaphragm (24) is greater than the diameter of the inner

circumference of the suspension holder (38), the suspension holder (38) has an inner circumferential portion which is apart from the voice coil body (43), the inner circumferential portion is disposed on a top surface of the supporting section (53) and the inner circumferential portion is coupled via an adhesive to the voice coil body (Col. 10, lines 28-32), the inner circumferential portion extending upwardly from the top surface of the supporting section (53), and the diaphragm (24) is disposed on and in contact with the suspension holder (38) at an inner circumferential end of the suspension holder (38) such that the diaphragm (24) is supported by the suspension holder (38).

Conclusion

The prior art made of record

a. US Patent Number **6,088,466**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan C. Robinson whose telephone number is (571) 270-3956. The examiner can normally be reached on Monday through Friday from 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz, can be reached on (571) 272-7499. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/R. R./ Examiner, Art Unit 2614 /CURTIS KUNTZ/ Supervisory Patent Examiner, Art Unit 2614